Carlsbad Municipal Water District

Water Quality Report for 2001

The Carlsbad Municipal Water District is pleased to provide you with this Consumer Confidence Report on water quality. This report gives you information about the quality of the water we delivered to you in the year 2001. This water was purchased from the Metropolitan Water District of Southern California, which conducted the testing and provided a majority of the data for this report.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

The sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animal or human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.



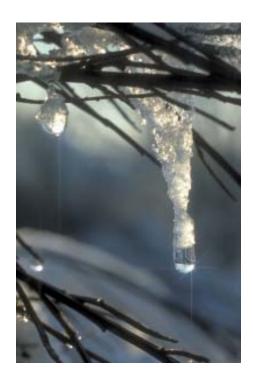
- Organic chemical contaminants, including synthetic and volatile organic chemicals, that are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturallyoccurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the USEPA and the California Department of Health Services (CDHS) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. CDHS regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

In addition, we take many steps to ensure your water's quality and safety before it reaches your tap. These include routine water sampling and monitoring, analyzing the results of the sampling and adjusting treatment, flushing pipes through hydrants, and repairing pipes.

Most of the substances listed in this report occur naturally in our environment and in the foods we eat. Their standards have safety margins that take into account contaminant exposures from other sources, such as food and air. For this reason, these standards should *not* be regarded as fine lines between safe and dangerous concentrations.

This report covers testing for contaminants in 2001. If you have any questions, please contact Jim Ball of the Carlsbad Municipal Water District at (760) 438-2722.



Special Note:

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

Where Your Water Comes From

CMWD imports 100% of its water supply, since we have no local sources of water. This supply is treated by and purchased from the Metropolitan Water District of Southern California (MWD) via our wholesaler, the San Diego County Water Authority (SDCWA).

MWD receives water from two sources: the Colorado River through the Colorado River Aqueduct, and Northern California through the California Aqueduct (also known as the State Water Project). These waters are blended and rigorously treated at MWD's Lake Skinner Treatment Plant in southern Riverside County. The water is then delivered to Carlsbad through the San Diego Aqueduct, owned by SDCWA.

In 2001, an average of 74% of our water came from the Colorado River, with the remaining 26% coming from Northern California.

The water quality data contained in this report is obtained from MWD based on their sampling of waters combined at the Lake Skinner Plants.



Carlsbad Municipal Water District Water Quality Data for 2001

The table on the next two pages lists all of the regulated drinking water contaminants that were detected during the calendar year 2001. The presence of contaminants in water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in 2001. The U.S. Environmental Protection Agency and the California Department of Health Services require that monitoring for certain contaminants be less than once per year because the concentrations of these contaminants do not change frequently.

PARAMETER	UNIT OF MEASURE	STATE MCL	PHG (MCLG)	RANGE AVERAGE	COMBINED SKINNER PLANT EFFLUENTS	MAJOR SOURCES IN DRINKING WATER
PRIMARY STANDARDS Mar	ndatory Healt	h-Related S	Standards			
CLARITY						
Combined Filter Effluent Turbidity	NTU %	0.5 95 (a)	NA	Highest %<0.5	0.16 100%	Soil runoff
MICROBIOLOGICAL (b)	0.4	50(1)	(0)		0 0 400/	N. C. II.
Total Coliform Bacteria	%	5.0 (b)	(0)	Range Average	0 - 0.46% 0.06%	Naturally present in the environment
Fecal Coliform and <i>E. coli</i>	(c)	(c)	(0)	% of fecal coliform & <i>E. coli</i> Human and animal fecal wast samples that were positive = 0		
ORGANIC CHEMICALS Pesticides/PCBs						
Acrylamide		П	(0)	Range Average	П П	Added to water during sewage/wastewater treatment
Epichlorohydrin		П	(0)	Range Average	Π Π	Industrial factory discharges; treatment chemical impurities
Volatile Organic Compounds						
Methyl- <i>tert</i> -butyl-ether (MTBE) (d)	ppb	13	13	Range Average	ND - 1.3 0.9	Leaking underground gasoline storage tanks and pipelines
Toluene	ppb	150	150	Range Average	ND - 0.6 ND	Discharge from petroleum and chemical refineries
Total Trihalomethanes (f)	ppb	100	NA	Range Average	36 - 59 50	By-product of drinking water chlorination
INORGANIC CHEMICALS						
Fluoride	ppm	2	1	Range Average	0.19 - 0.24 0.22	Erosion of natural deposits; water additive for tooth health
RADIONUCLIDES (h)						
Gross Alpha Particle Activity	pCi/L	15	NA	Range Average	ND - 5.53 3.99	Erosion of natural deposits
Gross Beta Particle Activity	pCi/L	50	NA	Range Average	ND - 7.48 5.24	Decay of natural and manmade deposits
Combined Radium (i)	pCi/L	5	NA	Range Average	ND - 2.36 1.01	Erosion of natural deposits
Uranium	pCi/L	20	0.5	Range Average	ND - 3.18 2.61	Erosion of natural deposits
SECONDARY STANDARDS	Aesthetic Sta	ndards				
Chloride	ppm	500	NA	Range Average	76 - 85 79	Runoff and leaching from natural deposits; seawater influence
Color	Units	15	NA	Range Average	1 - 3 2	Naturally occurring organic materials
Corrosivity	SI	non- corrosive	NA	Range Average	0.19 - 0.42 0.34	Elemental balance in water; affected by temperature and other factors
Methyl- <i>tert</i> -butyl-ether (MTBE) (d)	ppb	13	13	Range Average	ND - 1.3 0.9	Leaking underground gasoline storage tanks and pipelines
Odor Threshold (j)	Units	3	NA	Range Average	(j) (j)	Naturally occurring organic materials
Specific Conductance	µmho/cm	1600	NA	Range Average	813 - 876 836	Substances that form ions in water; seawater influence
Sulfate	ppm	500	NA	Range Average	166 - 186 177	Runoff and leaching from natura deposits; industrial wastes
Total Dissolved Solids	ppm	1000	NA	Range	480 - 521	Runoff and leaching from natura
Total Dissolved Solids				Average	500	deposits; seawater influence

MEASURE MCL MCLG AVERAGE SKINNER PLANT EFFLUENTS MAJOR SOURCES IN DRINKING WATER	PARAMETER	UNIT OF	STATE	PHG	RANGE	COMBINED					
ADDITIONAL SAMPLING CMWD Distribution System Coliform Bacteria % 5.0 (b) (0) Range Average 0.12% convironment Total Trihalomethanes ppb 100 NA Range 44-78 gy-product of drinking water chlorination DINREGULATED CHEMICALS REQUIRING MONITORING Boron ppb NA AL= Range 120-130 Erosion of natural deposits from 897 to 12/98 except for chirine residual which is for 2001) Perchlorate ppb NA NA AL=18 Range ND-5 Rocket fuel and chemical fertilizers ADDITIONAL PARAMETERS KCR-Distribution By-Products (Data is from 897 to 12/98 except for chirine residual which is for 2001) Chloral hydrate ppb NA NA Range 3.5 - 7.0 Average 5.1 Cyanogen chloride ppb NA NA Range 17 - 33 Disinfection by-product Average 2.5 Haloaceto acids ppb NA NA Range 17 - 33 Disinfection by-product Average 2.5 Haloacetonitriles ppb NA NA Range 1.3 - 2.2 Disinfection by-product Average 1.6 Total organic halides ppb NA NA Range 1.5 - 157 Total chlorine residual ppm NA NA Range 2.7 - 2.83 Disinfection by-product Average 2.5 Total chlorine residual ppm NA NA Range 2.7 - 2.83 Disinfection by-product Average 1.6 Total chlorine residual ppm NA NA Range 2.7 - 2.83 Disinfection by-product Average 2.5 Microbial Contaminants Heterotrophic Plate Count (m) CFU/mL NA NA Range 2.7 - 2.83 Disinfection by-product Average 2.57 Microbial Contaminants Heterotrophic Plate Count (m) CFU/mL NA NA Range 2.7 - 2.83 Disinfection by-product Average 2.57 Microbial Contaminants Heterotrophic Plate Count (m) CFU/mL NA NA Range 2.7 - 2.83 Disinfection by-product Average 2.57 Microbial Contaminants Heterotrophic Plate Count (m) CFU/mL NA NA Range 2.7 - 2.83 Disinfection by-product Average 2.57 Microbial Contaminants Heterotrophic Plate Count (m) CFU/mL NA NA Range 2.27 - 2.83 Disinfection by-product Average 2.35 Magnesium ppm NA NA Range 3.3 - 4.1 Erosion of natural deposits; leaching 4verage 2.3.5 Erosion of natural deposits; leaching 4verage 2.3.5 Erosion of natural deposits; leaching 4verage 3.9 Erosion of natural deposits; leaching 4verage 3.9 Naturally oc	TANAMETER						MAJOR SOURCES IN				
Coliform Bacteria						EFFLUENTS	DRINKING WATER				
Coliform Bacteria	ADDITIONAL CAMPLING. CHIMD Distribution Custom										
New Figure Name N	•										
NameGULATED CHEMICALS REQUIRING MONITORING Boron	Coliform Bacteria	%	5.0 (b)	(0)	•		, ,				
Boron	Total Trihalomethanes	ppb	100	NA	•	-					
Perchlorate	·										
Perchlorate Ppb NA AL=18 Range Average ND - 6 4 Rocket fuel and chemical fertilizers	Boron	ppb	NA		0		Erosion of natural deposits				
ADDITIONAL PARAMETERS ICR-Disinfection By-Products Data is from 8/97 to 12/98 except for chlorine residual which is for 2001)	Perchlorate	ppb	NA	AL=18	Range						
Chloral hydrate ppb NA NA Range Average 5.1 3.5 - 7.0 bisinfection by-product Cyanogen chloride ppb NA NA Range Average 3.4 Disinfection by-product Haloacetic acids ppb NA NA Range Average 25 3.4 Haloacetonitriles ppb NA NA Range Average 25 Disinfection by-product Haloacetonitriles ppb NA NA Range Average 8.7 Disinfection by-product Haloketones ppb NA NA Range Average 1.6 Disinfection by-product Total organic halides ppb NA NA Range 115 - 157 Average 138 Disinfection by-product Total chlorine residual ppm NA NA Range 2.27 - 2.83 Average 138 Disinfection by-product Microbial Contaminants NA NA Range 2.57 Disinfection by-product Microbial Contaminants NA NA Range 2.57 Disinfection by-product Heterotrophic Plate Count (m) CFU/mL NA NA Range 2.57 Disinfection by-product Other Parameters NA NA Range 2.57 Erosion of natural deposits; leaching Alkalinity ppm NA NA Range 2.52 Erosio	ADDITIONAL PARAMETERS										
Cyanogen chloride ppb NA NA Range 2.3 - 5.5 Disinfection by-product Average 3.4 Haloacetic acids ppb NA NA Range 25 - 17 Disinfection by-product Average 25 Disinfection by-product Average 25 Disinfection by-product Average 8.7 Haloacetonitriles ppb NA NA Range 5.6 - 17 Disinfection by-product Average 8.7 Disinfection by-product Average 8.7 Haloacetonitriles ppb NA NA Range 1.3 - 2.2 Disinfection by-product Average 1.6 Disinfection by-product Average 1.6 Disinfection by-product Average 1.6 Disinfection by-product Average 1.8 Disinfection by-product Average 1.8 Disinfection by-product Average 1.8 Disinfection by-product Average 1.8 Disinfection by-product Average 2.27 - 2.83 Disinfection by-product Average 2.57 Disinfection by-product 2.57 Disinfection by											
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Haloacetic acids	Cyanogen chloride	ppb	NA	NA	•		Disinfection by-product				
Haloacetonitriles	Haloacetic acids	ppb	NA	NA	Range		Disinfection by-product				
Haloketones	Haloacetonitriles	ppb	NA	NA	•		Disinfection by-product				
Total chlorine residual ppm NA NA Range 2.27 - 2.83 Disinfection by-product Microbial Contaminants Heterotrophic Plate Count (m) CFU/mL NA NA Range Average < 1 Heterotrophic bacteria naturally present in the environment Other Parameters Alkalinity ppm NA NA Range 112 - 123 Erosion of natural deposits; leaching Calcium ppm NA NA Range 55 - 59 Erosion of natural deposits; leaching Hardness ppm NA NA Range 232 - 248 Erosion of natural deposits; leaching Magnesium ppm NA NA Range 233 Erosion of natural deposits; leaching Magnesium ppm NA NA Range 23 - 24.5 Erosion of natural deposits; leaching PH Units NA NA Range 23 - 24.5 Erosion of natural deposits; leaching PH PH Units NA NA Range 8.03 - 8.10 Average 8.06 Potassium ppm NA NA Range 3.8 - 4.1 Erosion of natural deposits; leaching Sodium ppm NA NA Range 71 - 82 Naturally occurring Total Organic Carbon (n) ppm NA NA Range 2.33 - 2.96 Naturally occurring organic	Haloketones	ppb	NA	NA	•		Disinfection by-product				
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Average 116 leaching Calcium ppm NA NA Range 55 - 59 Erosion of natural deposits; leaching Hardness ppm NA NA Range 232 - 248 Erosion of natural deposits; leaching Magnesium ppm NA NA Range 23 - 24.5 Erosion of natural deposits; leaching Magnesium ppm NA NA Range 23 - 24.5 Erosion of natural deposits; leaching PH Units NA NA Range 8.03 - 8.10 Average 8.06 Potassium ppm NA NA Range 3.8 - 4.1 Erosion of natural deposits; leaching Sodium ppm NA NA Range 71 - 82 Naturally occurring Average 77 Total Organic Carbon (n) ppm NA NA Range 2.33 - 2.96 Naturally occurring organic	Other Parameters										
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MagnesiumppmNANARange Average23 - 24.5 Erosion of natural deposits; leachingpHpH UnitsNANARange Average8.03 - 8.10 AveragePotassiumppmNANARange Average3.8 - 4.1 Erosion of natural deposits; AverageSodiumppmNANARange Average3.9 leachingSodiumppmNANARange Average71 - 82 AverageNaturally occurring AverageTotal Organic Carbon (n)ppmNANARange2.33 - 2.96Naturally occurring organic	Calcium	ppm	NA	NA	•						
Magnesium ppm NA NA Range Average 23 - 24.5 (eaching) Erosion of natural deposits; leaching pH pH Units NA NA Range Average 8.03 - 8.10 (eaching) Potassium ppm NA NA Range Average 3.8 - 4.1 (eaching) Sodium ppm NA NA Range Average 71 - 82 (eaching) Total Organic Carbon (n) ppm NA NA Range Range Average 2.33 - 2.96 (eaching)	Hardness	ppm	NA	NA	•						
pH pH Units NA NA Range Average 8.03 - 8.10 Average Potassium ppm NA NA Range Average 3.8 - 4.1 Erosion of natural deposits; Average Sodium ppm NA NA Range Average 71 - 82 Average Naturally occurring Average Total Organic Carbon (n) ppm NA NA Range Range 2.33 - 2.96 Naturally occurring organic	Magnesium	ppm	NA	NA	Range		Erosion of natural deposits;				
Potassium ppm NA NA Range 3.8 - 4.1 Erosion of natural deposits; Average 3.9 leaching Sodium ppm NA NA Range 71 - 82 Naturally occurring Average 77 Total Organic Carbon (n) ppm NA NA Range 2.33 - 2.96 Naturally occurring organic	рН	pH Units	NA	NA	Range		<u>.</u>				
Sodium ppm NA NA Range 71 - 82 Naturally occurring Average 77 Total Organic Carbon (n) ppm NA NA Range 2.33 - 2.96 Naturally occurring organic	Potassium	ppm	NA	NA	Range	3.8 - 4.1	•				
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	Total Organic Carbon (n)	ppm	NA	NA	Range	2.33 - 2.96	, 5 5				

Abbreviations

Nephelometric Turbidity Units

parts per billion, or micrograms per liter (µg/L)

parts per million, or milligrams per liter (mg/L)

picoCuries per liter

Public Health Goal

NTU

pCi/L

PHG

ppb

ppm

ΑL Regulatory Action Level ppt parts per trillion, or nanograms per liter (ng/L) Si Colony Forming Units per milliliter Information Collection Rule CFU/mL Saturation Index (Langelier) ICR TT Treatment Technique MCL Maximum Contaminant Level µmho/cm micromhos per centimeter MCLG Maximum Contaminant Level Goal MFL million fibers per liter NA Not Applicable Not Collected NC ND None Detected

How to Read This Report

As you read the tables on pages 3 and 4, compare the level of constituents found in CMWD's water in the "Combined Skinner Plant Effluents" column with the standards set for them in the MCL and PHG columns. You'll see that CMWD's water did not violate any drinking water standards in 2001.

The following are key terms to help you understand the standards we use to measure drinking water safety.

Public Health Goals (PHGs) reflect the level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Maximum Contaminant Level Goals (MCLGs) reflect the same levels as PHGs, but are set by the U.S. Environmental Protection Agency.

Maximum Contaminant Levels (MCLs) reflect the highest level of a contaminant that is allowed in drinking water. MCLs are divided into two categories: primary and secondary.

Primary Drinking Water Standards (PDWS) are MCLs for contaminants that affect health, along with their monitoring and reporting requirements, and water treatment requirements. These are set by the federal EPA and the California Department of Health Services. PDWS are set as close to the PHGs (or MCLGs) as is economically and technologically feasible.

Secondary Drinking Water Standards (SDWS) protect the odor, taste and appearance of drinking water and are set by the California Department of Health Services.

Treatment Technique (TT) is a required process intended to reduce the level of a contaminant in drinking water.

Notes

- (a) The turbidity level of the filtered water shall be less than or equal to 0.5 NTU in 95% of the measurements taken each month and shall not exceed 5.0 NTU at any time. Turbidity is a measure of the cloudiness of the water. The Metropolitan Water District monitors it because it is a good indicator of the effectiveness of their filtration system. The monthly average and range of turbidity are listed in the Secondary Standards section.
- **(b)** Total coliform MCLs: No more than 5.0% of monthly samples may be total coliform positive. Compliance is based on the combined distribution system sampling from all of the filtration plants in the Metropolitan Water District system. In 2001, 10,781 samples were analyzed. The MCL was not violated.
- (c) Fecal coliform/*E. coli* MCLs: The occurrence of 2 consecutive total coliform positive samples, one of which contains fecal coliform/*E. coli*, constitutes an acute MCL violation. The MCL was not violated in 2001.
- (d) Aluminum, thiobencarb and MTBE have both primary and secondary standards.
- (e) Not used.
- **(f)** Calculated from the monthly filtration plant effluent samples. The highest running annual average of more than 40 quarterly distribution system samples was 60 ppb for 2001.
- (g) Not used.
- **(h)** Results are for the 1998/99 4-quarter radiological monitoring program.
- (i) Standard is for Radium-226 and -228 combined.
- (j) Metropolitan has developed a flavor-profile analysis method that can more accurately detect odor occurrences. For more information, contact MWD at (213) 217-6850.
- (k) Not used.
- (I) Not used.
- (m) Pour plate technique, 48-hour incubation at 35°C, monthly averages.
- (n) TOCs at the filtration plants were taken at the filter effluents.

If you have questions or concerns regarding the quality of Carlsbad's water, contact Jim Ball of CMWD's Water Operations Division at 760-438-2722 or by email at jball@ci.carlsbad.ca.us. For more detailed information on testing procedures, results and source water assessments, contact the Metropolitan Water District of Southern California's Water Quality Division at 1-800-CALL MWD.

To participate in decisions that affect drinking water in the CMWD service area, please watch the Carlsbad City Council agenda for drinking water items. Agendas can be obtained at Carlsbad City Hall, 1200 Carlsbad Village Drive, or on the Internet at www.ci.carlsbad.ca.us. The City Council meets every Tuesday at 6:00 p.m. at City Hall. Comments regarding your drinking water are always welcome.

This report is mailed to all water customers at their billing address and is available at most City facilities. This report may be photocopied and distributed or posted in a prominent place at your facility. Additional copies are available on the Internet at http://www.ci.carlsbad.ca.us/cserv/water.html or by calling the Carlsbad Municipal Water District at 760-438-2722.

The Carlsbad Municipal Water District is located at 5950 El Camino Real. Our office hours are Monday through Friday 8:00 a.m. to 5:00 p.m.